

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P939552

Luminaire Tested: **GALN-SB2A-950-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P939552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB2A-950-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(2) 90 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6186 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G2

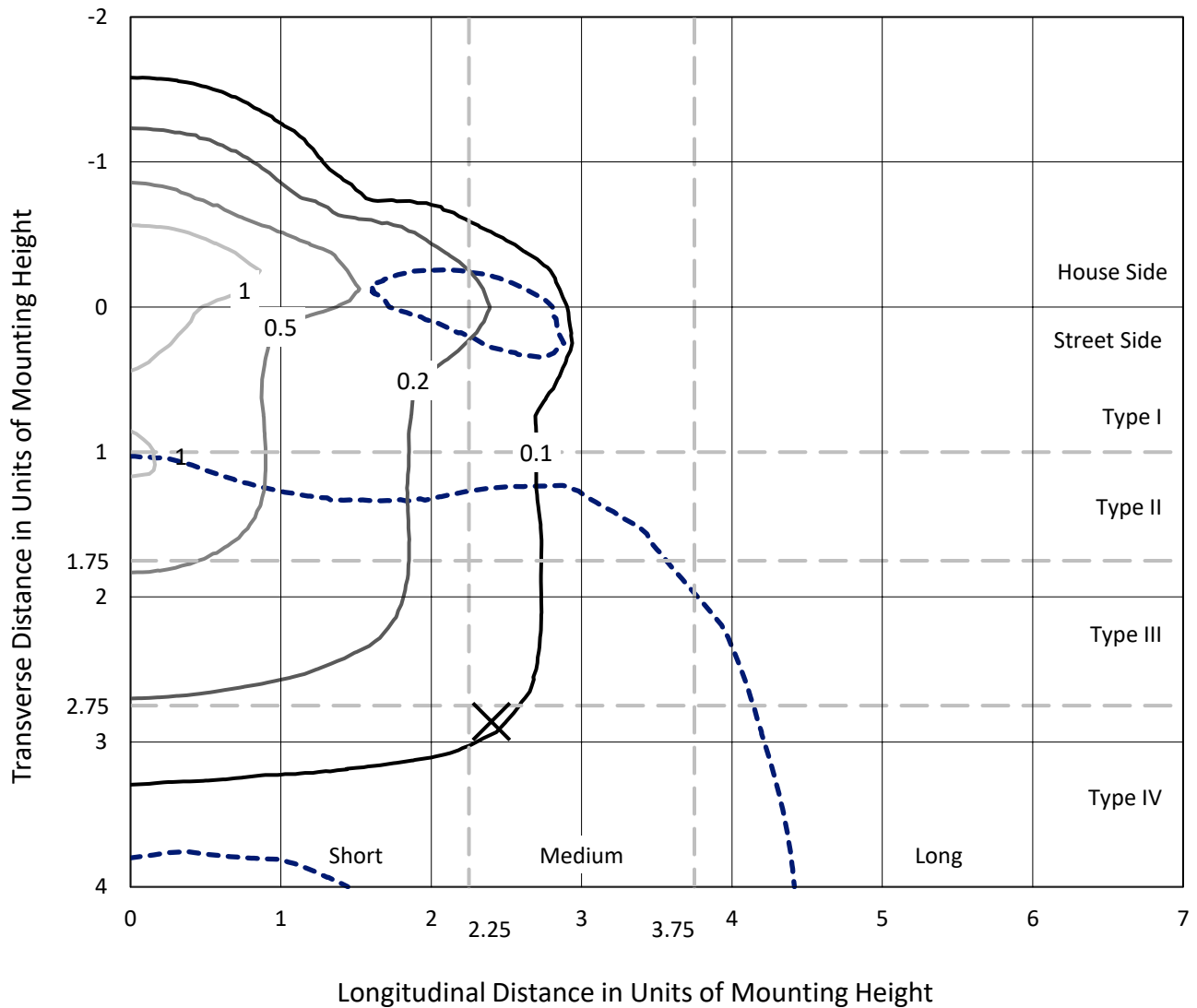
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

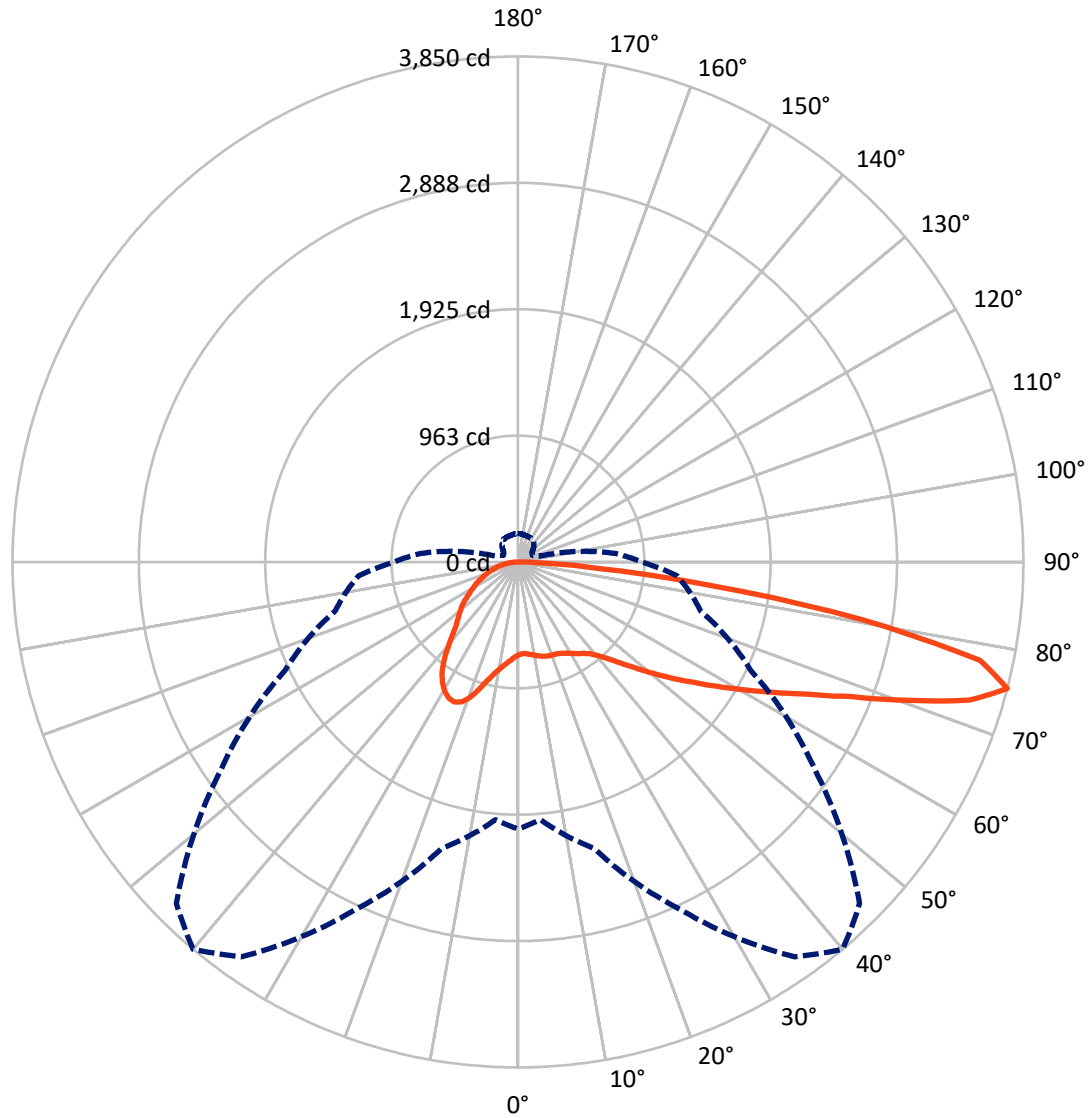
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1916.6	0.0	1916.6
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	4269.4	0.0	4269.4
	% Fixture	69.0	0.0	69.0
Total	Lumens	6186.0	0.0	6186.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.6	1.1
10°-20°	237.1	3.8
20°-30°	432.9	7.0
30°-40°	613.9	9.9
40°-50°	829.0	13.4
50°-60°	1115.2	18.0
60°-70°	1415.5	22.9
70°-80°	1284.6	20.8
80°-90°	187.3	3.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	6186.0	100.0
0°-180°	6186.0	100.0

Coefficient of Utilization



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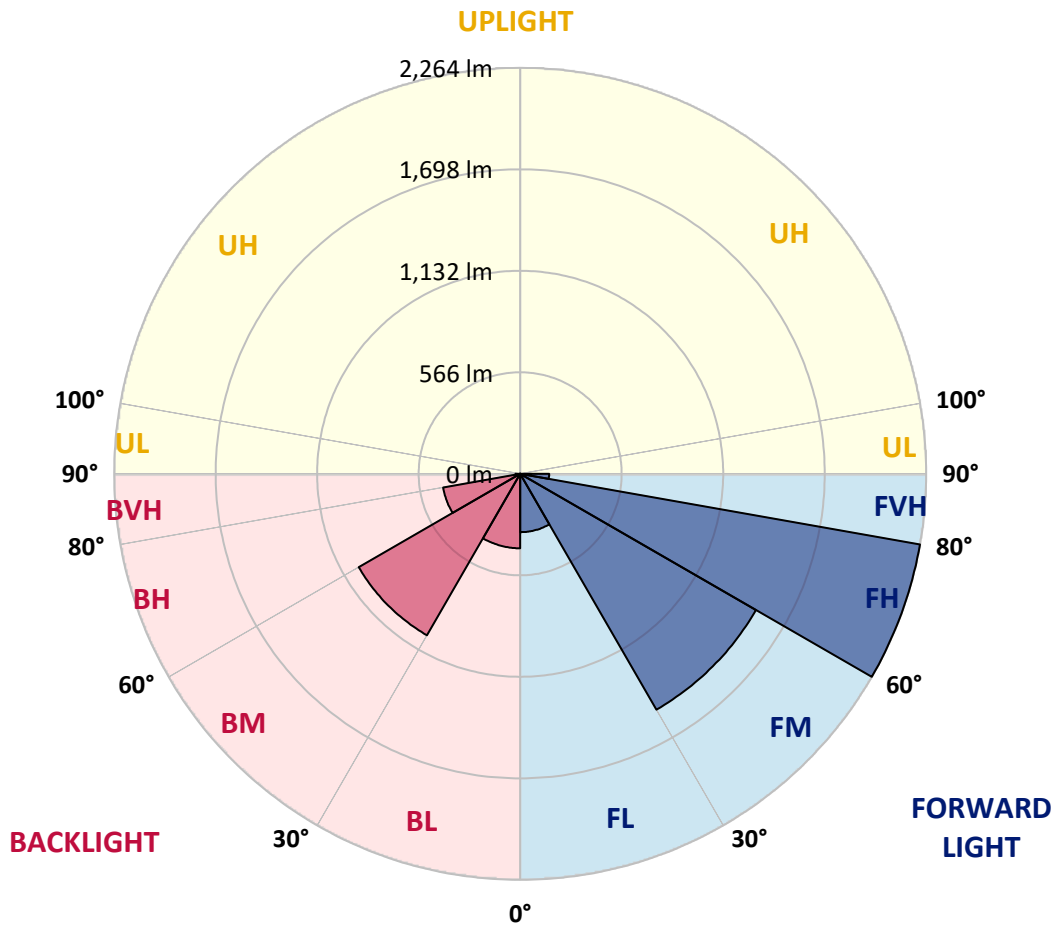
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	325.4	5.3			
FM (30°-60°)	1518.5	24.5			
FH (60°-80°)	2264.0	36.6			G2/5000
FVH (80°-90°)	161.5	2.6			G2/225
BL (0°-30°)	415.2	6.7	B1/500		
BM (30°-60°)	1039.6	16.8	B2/2500		
BH (60°-80°)	436.1	7.0	B1/500		G1/500
BVH (80°-90°)	25.8	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°
0°	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
2.5°	696.6	700.5	699.5	698.2	698.2	698.5	698.2	700.5	702.8	705.1
5°	703.8	707.7	705.7	704.1	702.8	702.5	701.5	701.1	702.5	705.4
7.5°	717.9	721.8	718.9	715.9	713.3	712.0	710.7	708.7	707.7	709.3
10°	733.6	737.6	734.0	728.7	724.4	722.8	721.5	719.5	718.2	719.2
12.5°	749.4	753.3	748.4	741.2	735.6	734.6	733.0	732.3	732.0	731.7
15°	764.1	767.4	761.2	752.7	746.7	745.1	743.5	744.5	746.1	748.1
17.5°	775.6	778.9	769.7	758.6	753.0	752.3	751.3	754.6	759.2	764.1
20°	786.1	789.4	777.6	762.5	755.9	755.9	756.3	763.2	769.7	776.9
22.5°	800.9	803.5	789.1	768.4	758.9	759.5	762.2	769.1	777.3	787.1
25°	822.9	824.8	807.1	779.6	768.7	770.7	773.0	776.3	784.2	795.6
27.5°	858.3	859.9	836.6	799.2	782.8	786.1	789.4	787.1	790.7	800.6
30°	908.2	909.2	879.6	830.1	806.8	808.4	809.1	799.6	792.7	800.6
32.5°	967.2	966.9	931.8	867.5	834.0	832.4	826.8	808.1	792.0	798.9
35°	1058.8	1055.2	1009.9	920.0	864.9	854.7	841.6	817.6	795.3	797.3
37.5°	1210.4	1199.2	1136.5	1005.9	910.8	884.9	865.5	833.0	802.5	796.6
40°	1381.3	1367.2	1298.3	1123.7	979.7	938.0	906.9	855.0	814.3	799.6
42.5°	1584.1	1564.0	1489.9	1262.5	1067.0	1006.6	959.7	882.9	831.7	809.1
45°	1833.1	1806.5	1701.5	1419.0	1176.9	1096.5	1033.8	925.2	858.3	827.5
47.5°	2084.7	2091.3	1942.0	1598.2	1308.8	1207.4	1126.7	988.9	897.0	857.0
50°	2352.1	2356.7	2181.2	1796.7	1458.4	1332.7	1231.0	1060.1	950.8	899.0
52.5°	2560.8	2561.5	2398.4	2004.3	1614.2	1470.5	1343.6	1141.4	1013.2	954.8
55°	2691.4	2689.7	2550.6	2200.9	1793.4	1615.2	1468.2	1234.0	1089.3	1020.4
57.5°	2786.2	2781.3	2655.6	2369.8	1984.3	1786.2	1609.3	1339.0	1179.2	1098.5
60°	2822.3	2819.3	2726.8	2515.8	2185.1	1975.1	1772.1	1456.4	1281.2	1190.7
62.5°	2836.1	2841.6	2796.7	2657.3	2400.0	2184.5	1950.9	1596.8	1396.1	1295.0
65°	2884.6	2894.8	2885.6	2842.3	2642.8	2429.6	2188.1	1763.8	1521.4	1406.9
67.5°	2980.8	2990.9	2994.9	3063.8	2939.4	2735.0	2484.0	1971.9	1668.0	1523.0
70°	2978.5	2975.5	3045.1	3240.0	3310.8	3157.9	2883.0	2227.8	1842.9	1619.5
72.5°	2711.1	2687.4	2851.8	3238.0	3619.9	3599.6	3370.2	2557.8	1993.8	1631.3
75°	2033.9	1970.9	2261.2	2918.1	3671.4	3850.2	3679.9	2762.6	1958.1	1441.3
77.5°	869.8	806.5	1148.7	2160.2	3285.9	3599.2	3395.8	2410.2	1563.1	953.1
80°	227.7	227.4	347.1	979.4	2234.7	2657.9	2331.8	1556.5	893.1	340.6
82.5°	94.2	91.9	127.6	380.9	1091.9	1491.5	1217.2	694.3	322.5	92.2
85°	35.1	34.8	62.0	131.6	385.2	615.2	445.2	177.5	80.4	44.9
87.5°	9.8	9.5	13.5	45.6	93.8	142.4	76.1	29.2	22.6	17.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
707.4	0°	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4	707.4
708.7	2.5°	709.7	711.3	714.3	716.6	719.5	722.8	727.4	730.3	733.3	735.3
710.3	5°	712.6	716.2	723.8	731.3	740.2	748.4	757.9	764.8	770.4	772.0
716.2	7.5°	719.2	725.1	737.9	750.7	764.8	778.2	792.0	803.8	813.4	817.0
726.7	10°	730.7	738.5	756.6	774.6	793.3	814.0	831.7	848.8	862.2	867.8
739.2	12.5°	745.1	755.0	778.6	803.5	829.4	858.0	880.9	901.9	918.7	926.2
756.6	15°	763.8	776.6	806.8	840.3	878.3	918.0	947.2	970.5	989.2	998.4
774.6	17.5°	784.2	801.2	839.3	889.8	944.3	996.4	1030.6	1047.6	1067.0	1075.8
791.4	20°	803.8	824.8	879.3	952.8	1025.3	1080.8	1108.3	1112.9	1114.2	1115.2
807.1	22.5°	824.2	852.4	929.5	1032.2	1110.0	1148.3	1152.3	1132.6	1105.0	1092.2
822.5	25°	846.5	883.9	995.1	1119.8	1182.8	1187.4	1157.2	1109.3	1057.1	1033.2
835.0	27.5°	868.1	920.3	1073.9	1203.5	1235.3	1194.9	1130.0	1062.1	999.1	973.8
843.9	30°	889.8	962.0	1160.8	1276.6	1259.2	1176.2	1087.0	1011.2	947.9	921.3
851.7	32.5°	911.8	1010.5	1260.9	1329.4	1255.0	1136.5	1033.5	954.1	898.3	870.4
858.6	35°	936.7	1070.3	1355.7	1358.3	1226.4	1078.1	963.0	885.9	837.3	815.0
866.8	37.5°	969.2	1146.0	1439.4	1365.5	1176.6	992.5	875.4	805.2	765.1	755.0
879.0	40°	1009.6	1237.3	1503.3	1354.1	1102.7	888.5	779.6	723.5	700.8	703.1
895.4	42.5°	1062.1	1339.3	1548.3	1324.5	1000.0	781.2	695.6	670.6	681.5	690.6
920.0	45°	1130.3	1445.3	1576.2	1274.3	883.9	690.3	646.0	651.9	660.1	661.1
959.7	47.5°	1217.6	1552.6	1594.6	1198.5	765.5	626.3	614.5	615.8	614.2	607.3
1019.1	50°	1326.5	1656.9	1611.0	1098.1	664.7	586.3	570.6	566.0	543.3	521.0
1098.1	52.5°	1450.5	1752.7	1617.8	973.5	586.3	552.8	527.3	498.4	456.1	449.2
1197.6	55°	1588.3	1841.3	1600.1	820.2	520.4	509.9	471.1	436.4	431.8	425.9
1328.5	57.5°	1753.0	1936.8	1564.0	649.3	452.8	459.7	421.9	425.9	417.7	408.5
1496.8	60°	1933.1	2035.5	1500.7	493.5	382.9	397.0	409.1	408.8	406.5	399.0
1674.3	62.5°	2095.2	2100.5	1376.0	378.0	321.5	348.4	381.6	381.2	379.3	375.0
1859.7	65°	2191.7	2090.6	1168.0	297.6	271.0	308.4	344.2	346.8	347.1	346.8
1999.1	67.5°	2174.6	1975.5	882.6	236.9	229.3	267.7	307.1	310.7	313.3	314.0
2016.8	70°	1981.7	1722.5	575.5	189.0	192.3	232.0	272.0	275.6	277.9	280.5
1750.1	72.5°	1544.7	1266.5	329.4	152.9	159.8	201.1	237.2	241.5	242.8	247.7
1217.9	75°	941.3	744.8	177.8	120.4	131.2	171.9	202.8	207.7	210.0	215.9
598.1	77.5°	447.5	322.5	101.4	93.8	105.6	140.4	171.3	176.8	170.6	173.9
165.0	80°	151.3	119.8	64.0	71.5	80.7	109.6	137.1	142.7	129.6	128.9
54.8	82.5°	52.8	48.6	40.7	47.6	52.2	78.4	103.7	110.9	96.5	96.1
24.6	85°	20.7	19.7	22.6	25.9	31.2	48.2	68.2	71.9	59.4	47.9
7.2	87.5°	4.3	4.6	5.6	5.9	9.5	16.7	24.6	30.2	24.0	20.3
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

<u>180°</u>
707.4
734.0
772.7
817.3
868.1
926.2
997.7
1075.5
1117.8
1095.8
1036.8
976.7
924.2
874.1
819.9
762.2
711.0
699.2
667.7
612.6
524.0
451.5
426.9
406.8
396.3
373.4
346.8
314.6
281.8
249.7
216.5
171.3
127.6
91.5
47.2
18.7
0.0

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